

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/511,841  
Source: PCT  
Date Processed by STIC: 08/26/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/511,841

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4      Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
  
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)             . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for **each** skipped sequence:  
                                   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   (ii) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                                   (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   This sequence is intentionally skipped  
  
                                   Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                                   <210> sequence id number  
                                   <400> sequence id number  
                                   000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                                   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                                   In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11      Use of <220>  
   to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                                   (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



PCT

## RAW SEQUENCE LISTING

DATE: 08/26/2005

PATENT APPLICATION: US/10/511,841

TIME: 14:38:35

Input Set : A:\81572-18.seq.12.may.2003.v1.txt

Output Set: N:\CRF4\08262005\J511841.raw

3 <110> APPLICANT: UNIVERSITY OF SASKATCHEWAN TECHNOLOGIES INC.  
 4 LEE, Jeremy s.  
 5 WETTIG, Shawn D.  
 6 KRAATZ, Heinz-Bernhard  
 8 <120> TITLE OF INVENTION: METHODS AN APPARATUS FOR MOLECULAR DATA STORAGE, RETRIEVAL

AND

9 ANALYSIS

11 &lt;130&gt; FILE REFERENCE: 84527-18

C--&gt; 13 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/511,841

C--&gt; 14 &lt;141&gt; CURRENT FILING DATE: 2004-10-19

16 &lt;150&gt; PRIOR APPLICATION NUMBER: US 60/373,644

17 &lt;151&gt; PRIOR FILING DATE: 2002-04-19

19 &lt;160&gt; NUMBER OF SEQ ID NOS: 6

21 &lt;170&gt; SOFTWARE: PatentIn version 3.2

24 &lt;210&gt; SEQ ID NO: 1

25 &lt;211&gt; LENGTH: 50

26 &lt;212&gt; TYPE: DNA

27 &lt;213&gt; ORGANISM: Artificial Sequence

29 &lt;220&gt; FEATURE:

30 &lt;223&gt; OTHER INFORMATION: Guide Sequence

32 &lt;400&gt; SEQUENCE: 1

33 aaaaaaaaaa aaaaaaaaaa catgaattcc aaaaaaaaaa aaaaaaaaaa

36 &lt;210&gt; SEQ ID NO: 2

37 &lt;211&gt; LENGTH: 10

38 &lt;212&gt; TYPE: DNA

39 &lt;213&gt; ORGANISM: Artificial Sequence

41 &lt;220&gt; FEATURE:

42 &lt;223&gt; OTHER INFORMATION: Match Sequence

44 &lt;400&gt; SEQUENCE: 2

45 ggaattcatg

48 &lt;210&gt; SEQ ID NO: 3

49 &lt;211&gt; LENGTH: 10

50 &lt;212&gt; TYPE: DNA

51 &lt;213&gt; ORGANISM: Artificial Sequence

53 &lt;220&gt; FEATURE:

54 &lt;223&gt; OTHER INFORMATION: Miss Match Sequence 1

56 &lt;400&gt; SEQUENCE: 3

57 ggacttcacg

60 &lt;210&gt; SEQ ID NO: 4

61 &lt;211&gt; LENGTH: 10

62 &lt;212&gt; TYPE: DNA

63 &lt;213&gt; ORGANISM: Artificial Sequence

65 &lt;220&gt; FEATURE:

66 &lt;223&gt; OTHER INFORMATION: Miss Match Sequence 2

Does Not Comply  
Corrected Diskette Needed

*Pls Explain the Source  
of Genetic Material.  
See Item 11 on Error  
Summary sheet.*

10

10

*Same Error*

## RAW SEQUENCE LISTING

DATE: 08/26/2005

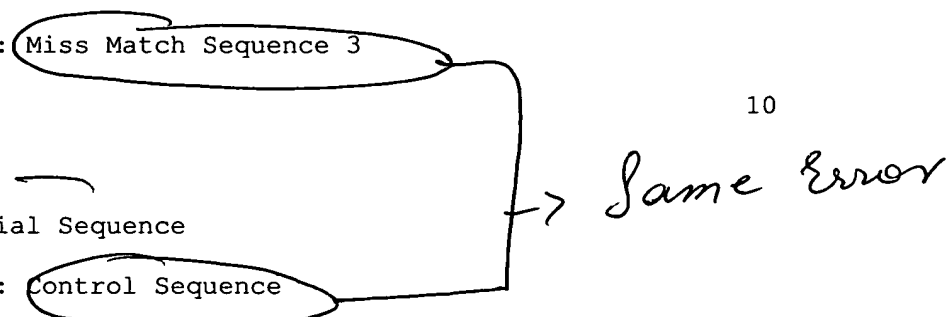
PATENT APPLICATION: US/10/511,841

TIME: 14:38:35

Input Set : A:\81572-18.seq.12.may.2003.v1.txt

Output Set: N:\CRF4\08262005\J511841.raw

68 <400> SEQUENCE: 4  
69 ggacatcatg 10  
72 <210> SEQ ID NO: 5  
73 <211> LENGTH: 10  
74 <212> TYPE: DNA  
75 <213> ORGANISM: Artificial Sequence  
77 <220> FEATURE:  
78 <223> OTHER INFORMATION: Miss Match Sequence 3  
80 <400> SEQUENCE: 5  
81 ggacaacatg 10  
84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 10  
86 <212> TYPE: DNA  
87 <213> ORGANISM: Artificial Sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: Control Sequence  
92 <400> SEQUENCE: 6  
93 gtacttaagg 10



**VERIFICATION SUMMARY**

DATE: 08/26/2005

PATENT APPLICATION: US/10/511,841

TIME: 14:38:36

Input Set : A:\81572-18.seq.12.may.2003.v1.txt

Output Set: N:\CRF4\08262005\J511841.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date